

CAUTION
The front clustering ties MUST NOT interfere with the

- 1 Set three parachutes side by side on the load with the riser compartments down and the bridles toward the rear of the platform.
- Set three parachutes on top of the parachutes in step 1 above with the riser compartments up.
- (3) Set two parachutes on top of the parachutes in step 2 with the riser compartments up.
- 4 Tie the inside front four and rear four carrying handles of the middle and bottom parachutes together with lengths of 1/2-inch tubular nylon webbing. Tie the two top front and rear inside carrying handles with lengths of 1/2-tubular nylon webbing. Tie the two outside front and rear carrying handles of the middle and bottom parachutes with lengths of 1/2-inch tubular nylon webbing. Tie the top two outside front and rear parachute carrying handles to the outside front and rear carrying handles of the middle parachutes together using 1/2-inch tubular nylon webbing.
- (5) Fit the bridles of the left stack and the left top parachute on the arms of a large clevis, and fit a 3-foot sling on the clevis bolt. Fit the bridles of the center stack of parachutes on the arms of a second large clevis, and fit a 3-foot sling on the clevis bolt. Fit the bridles of the right stack and the right top parachute on the arms of a third large clevis, and fit a 3-foot sling on the clevis bolt. Fit the ends of the 3-foot slings on the arms of a fourth large clevis.
- For the cotton bag tie each clevis to a bridle attaching loop with a doubled length of type I, 1/4-inch cotton webbing and secure with a surgeon's knot and a locking knot. For the nylon bag tie each clevis to a parachute restraint strap loop with a doubled length of type I, 1/4-inch cotton webbing and secure with a surgeon's knot and a locking knot.

Figure 3-27. Eight Parachutes Stowed

RESTRAINING ONE PARACHUTE

3-20. Restrain one cargo parachute as shown in Figure 3-28.

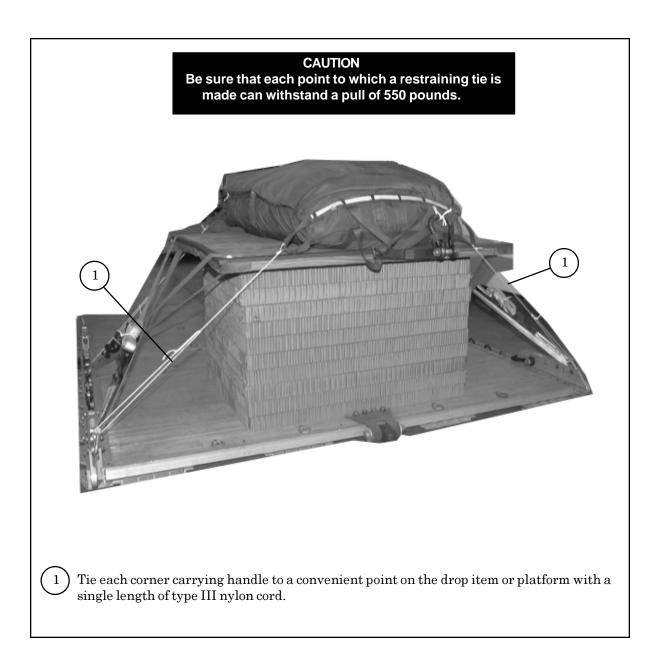
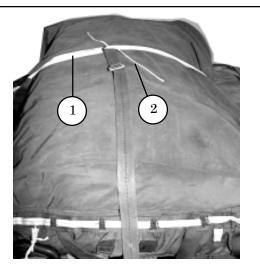


Figure 3-28. One Parachute Restrained

RESTRAINING TWO TO EIGHT PARACHUTES

3-21. The following parachute restraint systems are used to restrain two to eight cargo parachutes.

a. Two Parachutes. The restraint system for two cargo parachutes consists of one length of type VIII nylon webbing (restraint strap) and one V-knife as shown in Figures 3-29 and 3-30 or one guillotine-knife parachute release strap shown in Figures 3-31 and 3-32. Restrain two cargo parachutes as shown in Figures 3-29 through 3-36.



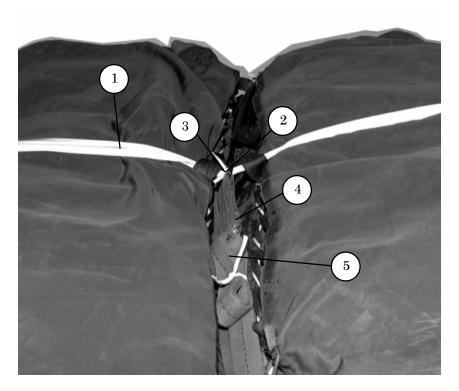


- Run the restraint strap through the center carrying handles on the left side of the parachutes, up to the top of the parachutes, and through the V-knife. Run the strap down through the center carrying handles on the right side of the parachutes. Tie the ends of the restraint strap to the load as described in Figure 3-35.
- Run one end of a 12-inch length of type I, 1/4-inch cotton webbing behind the bar of the knife. Continue to run the webbing under the restraint strap.
- $\begin{pmatrix} 3 \end{pmatrix}$ Tie the ends of the webbing together with a surgeon's knot and a locking knot on top.

Note: The safety tie holds the restraint strap to the bar of the knife and keeps the blade from cutting prematurely.

- (4) Run the free end of the release strap around the large clevis grouping the bridles and back up through the friction adapter.
- (5) Pull the release strap taut. Fold or roll the excess strap, and tape or tie the folds in place.

Figure 3-29. V-knife Parachute Release Strap Installed on Loads with Two Stacked Parachutes

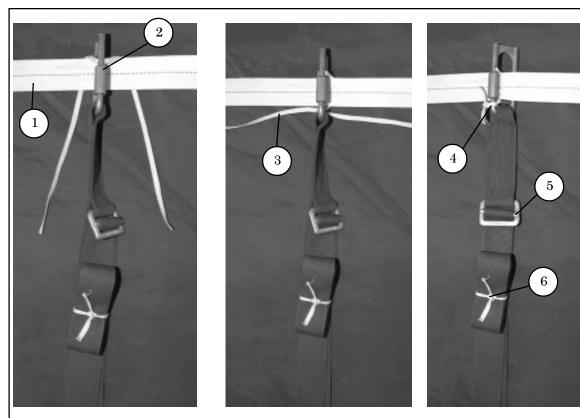


- (1) Run the restraint strap through the center carrying handle on the left side of the parachute. Run the restraint strap over the top of the parachute, and down through the left center carrying handle and through the V-knife. Continue to run the restraint strap up through the right inside carrying handle. Run the restraint strap over the right parachute and down through the right outside carrying handle. Tie the ends of the restraint strap to the load as described in Figure 3-35.
- Run one end of a 12-inch length of type I, 1/4-inch cotton webbing behind the bar of the knife. Continue to run the webbing under the restraint strap.
- (3) Tie the ends of the webbing together with a surgeon's knot and a locking knot on top.

Note: The safety tie holds the restraint strap to the bar of the knife and keeps the blade from cutting prematurely.

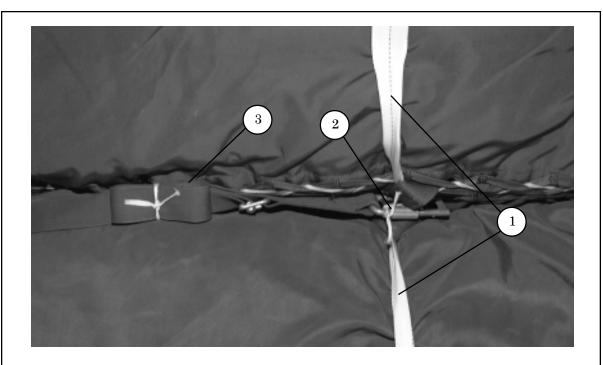
- Run the free end of the release strap around the large clevis grouping the bridles and back up through the friction adapter.
- (5) Pull the release strap taut. Fold or roll the excess strap, and tape or tie the folds in place.

Figure 3-30. V-knife Parachute Release Strap Installed on Loads with Two Side-by Side Parachutes



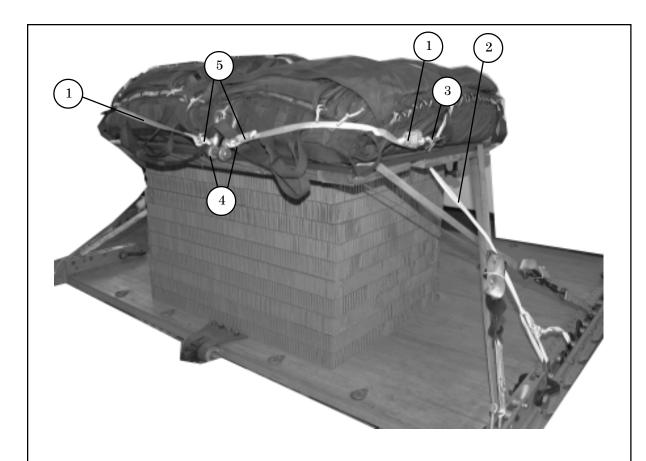
- Run the restraint strap through the center carrying handles on the left side of the parachutes, up and across the top of the parachutes, and down through the center carrying handles on the right side of the parachutes. Tie the restraint strap to the load as described in Figure 3-35.
- 2 Close the knife around the restraint strap, knurled nut up. Thread a length of type I, 1/4-inch cotton webbing through the safety tie hole. Even the ends of the webbing, and run them under the restraint strap, and alongside the release knife.
- Thread the end of the webbing on the left side of the knife rightward behind the bar of the knife. Thread the other end of webbing left in a like manner.
- 4 Bring the ends of the webbing up over the top of the bar. Tie the ends of the webbing together with a surgeon's knot and a locking knot.
- 8 Run the free end of the release strap around the large clevis grouping the bridles and back up through the friction adapter.
- 6 Pull the release strap taut. Fold or roll the excess strap, and tape or tie the folds in place.

Figure 3-31. Guillotine-knife Parachute Release Strap Installed on Two Stacked Parachutes



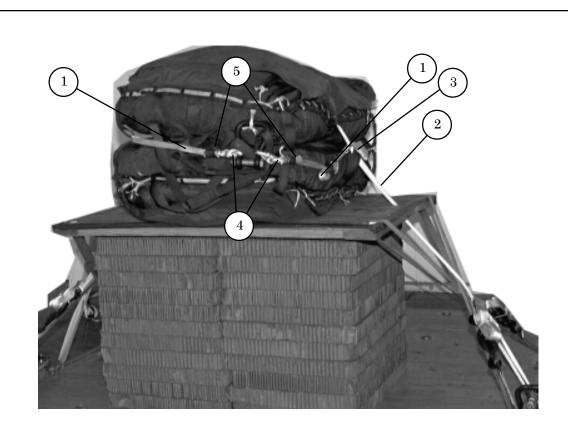
- Run the restraint strap up through the outside carrying handle of the left parachute, across the left parachute, down through the inside center carrying handle of the left parachute, up through the inside center carrying handle of the right parachute, across the right parachute, and down through the outside center carrying handle of the right parachute. Tie the restraint strap to the load as described in Figure 3-35.
- Close the knife around the restraint strap with the knurled nut up, between the inside carrying handles. Thread a length of type I, 1/4-inch cotton webbing through the safety tie hole. Even the ends of the webbing, and run them under the restraint strap, and along side the release knife. Thread the end of the webbing on the left of the knife rightward behind the bar of the knife. Thread the other end of webbing leftward in a like manner. Bring the ends of the webbing up over the top of the bar. Tie the ends of the webbing together with a surgeon's knot and locking knot as shown in Figure 3-31. Run the free end of the release strap down through the large clevis grouping the bridles and back up through the friction adapter as described in Figure 3-31.
- (3) Pull the release strap taut. Fold or roll the excess strap, and tape or tie the folds in place as described in Figure 3-31.

Figure 3-32. Guillotine-knife Parachute Release Strap Installed on Two Side-by-Side Parachutes



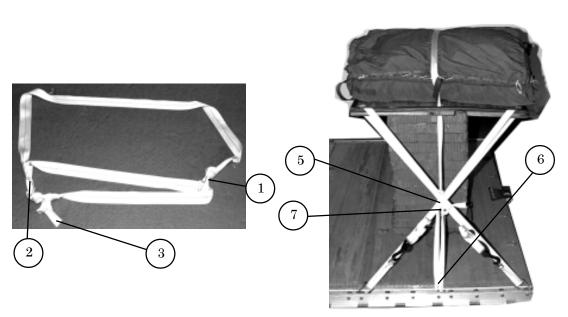
- Remove guillotine knives number 2 and 3 (Figure 2-3) from each multicut parachute release straps. Fold the unused loops, and tape the folds in place.
- $\binom{2}{2}$ Tie the restraint strap to the load as described in Figure 3-35.
- (3) Close each knife around the restraint strap, with the knurled nut up. Secure as shown in Figure 3-31.
- 4 Tie the free end of each release strap to the large clevis grouping the bridles. Use three alternating half hitches and an overhand knot in each running end. Make sure that the parachute release straps are not routed under the parachute restraint or parachute bridles. Make sure that the release straps are shorter than the parachute bridles to ensure that the deployment force is applied to the strap before the bridles.
- (5) Fold or roll any excess strap, and tape the folds in place.

Figure 3-33. Multicut Parachute Release Straps Installed on Two Side-by-Side Parachutes



- 1 Remove guillotine knives number 2 and 3 (Figure 2-3) from each multicut parachute release strap. Fold the unused loops, and tape the folds in place.
- Tie the restraint strap to the load as described in Figure 3-35.
- 3 Close each knife around the restraint strap, with the knurled nut out between the top and bottom carrying handles. Secure as shown in Figure 3-31.
- Tie the free end of each release strap to the large clevis grouping the bridles. Use three alternating half hitches and an overhand knot in each running end. Make sure that the parachute release straps are not routed under the parachute restraint or parachute bridles. Make sure that the release straps are shorter than the parachute bridles to ensure that the deployment force is applied to the strap before the bridles.
- $\left(\begin{array}{c}5\end{array}
 ight)$ Fold or roll any excess strap, and tape the folds in place.

Figure 3-34. Multicut Parachute Release Straps Installed on Two Stacked Parachutes



When the ends are tied together-

- $\begin{pmatrix} 1 \end{pmatrix}$ Tie a loop in one end of the restraint strap with an overhand knot.
- $\left(\begin{array}{c}2\end{array}
 ight)$ Tie a trucker's hitch a suitable distance from the other end of the restraint strap.
- (3) Run the free end of the restraint strap through the first loop and then back through the trucker's hitch.
- Pull on the free end until the strap is taut, and tie the free end of the strap with three alternating half hitches and with an overhand knot in the running end (not shown).

When the ends are tied to the load-

- $\left(\begin{array}{c}5\end{array}\right)$ Tie a trucker's hitch a suitable distance in each end of the restraint strap.
- (6) Run each free end of the strap through or around the indicated point on the load and back up through the trucker's hitch.

Note: The indicated point for tying the parachute restraint strap to the load will be given in the specific rigging manual.

Pull on both ends of the restraint strap at the same time. When the strap is taut, tie the ends with three alternating half hitches and an overhand knot in the running end.

Figure 3-35. Restraint Strap Tied

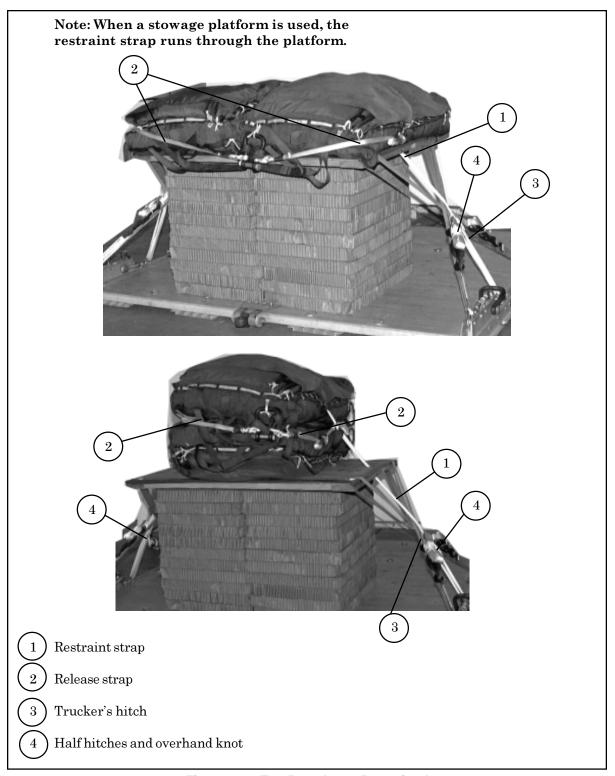


Figure 3-36. Two Parachutes Restrained